Claims

What is claimed is:

1. A chemical compound of formula (I):

$$X_{3} \xrightarrow{X_{1}} X_{1} \xrightarrow{N} X_{1} \xrightarrow{N} X_{2} \xrightarrow{N} X_{3} \xrightarrow{N} X_{4} \xrightarrow{N} X_{5} \xrightarrow{N} X_{5}$$

wherein:

R₁ to R₃ are independently selected from hydrogen and lower alkyl;

X₁ is selected from N and C-R₄;

X₂ is selected from N and C-R₅;

 X_3 is selected from N and C-R₆;

X₄ is selected from N and C-R₇

R₄, R₅ and R₇ are independently selected from hydrogen, halogen, hydroxy, alkyl, aryl, alkoxy, aryloxy, alkoyl, aryloyl, alkylthio, arylthio, alkylsulfoxyl, arylsulfoxyl, alkylsulfonyl, arylsulfonyl, amino, alkylamino, dialkylamino, nitro, cyano, carboalkoxy, carboaryloxy and carboxy; and

R₆ is selected from hydrogen, halogen, a1kyl, aryl, aryloxy, alkylthio, arylthio, alkylsu1foxyl, arylsulfoxyl, alkylsulfonyl, arylsulfonyl, amino, alkylamino, dialkylamino and cyano;

wherein either at least one of R_5 and R_6 is selected from chlorine, fluorine, haloalkyl and bromine, or R_5 is selected from halogen, haloalkyl and alkylthio, and pharmaceutically acceptable salts and addition compounds thereof.

- 2. A compound according to claim 1 wherein R₁ is selected from hydrogen and methyl.
- 3. A compound according to claim 1 wherein R_2 is hydrogen.
- 4. A compound according to claim 1 wherein R₃ is selected from hydrogen and methyl.
- 5. A compound according to claim 1 wherein X_2 is C- R_5 .
- 6. A compound according to claim 1 wherein X_3 is $C-R_6$.
- 7. A compound according to claim 1 wherein X_4 is $C-R_7$.
- 8. A compound according to claim 1 wherein X_1 is $C-R_4$.
- 9. A compound according to claim 1 wherein two of R_4 , R_5 , R_6 and R_7 are hydrogen.
- 10. A compound according to claim 9 wherein R_4 and R_6 are hydrogen.
- 11. A compound according to claim 1 wherein two of R₄, R₅, R₆ and R₇ are independently selected from hydrogen, chlorine, fluorine, trifluoromethyl and bromine.
- 12. A compound according to claim 1 wherein three of R₄, R₅, R₆ and R₇ are hydrogen.
- 13. A compound according to claim 1 wherein R₄, R₆ and R₇ are hydrogen.
- 14. A compound according to claim 1 wherein R₄ is hydrogen.
- 15. A compound according to claim 1 wherein R_5 is halogen.
- 16. A compound according to claim 1 wherein R_6 is hydrogen.
- 17. A compound according to claim 1 wherein R_7 is halogen.
- 18. A compound according to claim 1 which is selected from:
 - (RS) 7-chloro-1,2,3,4,10,10a-hexahydropyrazino[1,2-a]indole,
 - (RS) 7-chloro-8-methyl-1,2,3,4,10,10a-hexahydropyrazino[1,2-a]indole,

- (10aR) 7-chloro-1,2,3,4,10,10a-hexahydropyrazino[1,2-a]indole,
- (RS) 7-bromo-1,2,3,4,10,10a-hexahydroprazino[1,2-a]indole,
- (3S, 10aR) 8-chloro-2-methyl-1,2,3,4,10,10a-hexahydropyrazino[1,2-a]indole,
- (10aR) 8-chloro-1,2,3,4,10,10a-hexahydropyrazino[1,2-a]indole, and
- (3S, 10aR) 8-chloro-2-methyl-1,2,3,4,10,10a-hexahydropyrazino[1,2-a]indole.